

CLAIMS

1. Elevator comprising car guide rails (15) disposed in the vertical direction of an elevator shaft on the same side of the car (8), an elevator car whose motion is guided by the car guide rails, counterweight guide rails (16) placed in the elevator shaft, a counterweight (13) whose motion is guided by the counterweight guide rails, a number of diverting pulleys and a traction sheave driven by a drive motor and mounted in the upper part of the shaft for the transmission of hoisting power, which are disposed in the elevator shaft on the same side of the car, a drive motor (1) arranged to drive one of said diverting pulleys, and a rope system, **characterized** in that the traction sheave (2, 9) and at least two diverting pulleys are mounted in the upper part of the elevator shaft and the elevator car (8) and the counterweight (13) are provided with at least one diverting pulley each and both the car and the counterweight have a suspension ratio of 3:1 or greater.
9. Elevator as defined in claim 1, **characterized** in that the traction sheave (2) and three diverting pulleys (3, 4, 5) are mounted in the upper part of the elevator shaft, the counterweight (13) is provided with two diverting pulleys (7) for supporting it, the car (8) is provided with two diverting pulleys (6) for supporting it, both the car (8) and the counterweight (13) having a suspension ratio of 4:1.
3. Elevator as defined in claim 2, **characterized** in that the plane of rotation of the diverting pulley (5) mounted on the fixed overhead structure of the elevator shaft is at an angle relative to a wall (17) of the elevator shaft.
4. Elevator as defined in claim 2 or 3, **characterized** in that the planes of rotation of diverting pulleys (3, 4, 6, 7) are parallel to the wall (17).

5. Elevator as defined in claim 1, **characterized** in that the traction sheave (9) and three diverting pulleys (11-12) are mounted in the upper part of the elevator shaft, the counterweight (13) is provided with one diverting pulley (14), the car (8) is provided with one diverting pulley (10), both the car and the counterweight having a suspension ratio of 3:1.
6. Elevator as defined in claim 5, **characterized** in that all the diverting pulleys are in the same plane.
7. Elevator as defined in claim 1, **characterized** in that the hoisting machine and the guide rails are disposed in the elevator shaft on a lateral side of the car on the same side of it.
8. Elevator as defined in claim 1, **characterized** in that the counterweight guide rails and the car guide rails are disposed in the elevator shaft on the same side of the elevator car.